

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 18/03/2015 Revision date: 16/02/2023 Supersedes version of: 24/02/2022 Version: 1.3

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form	:	Mixture
Product name	:	WOLF ENGINE FLUSH
Product code	:	70313
Type of product	:	WOLF
Product group	:	Blend

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Main use category	:
Industrial/Professional use spec	:

Industrial use, Professional use, Consumer use Non-dispersive use Used in closed systems : Lubricants and additives

Function or use category 1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

WOLF OIL CORPORATION N.V. Georges Gilliotstraat, 52, 52 2620 Hemiksem - Antwerpen Belaië T 0032 (0)3 870 00 00 - F 0032 (0)3 870 00 99 msds@wolfoil.com - https://www.wolflubes.com/

1.4. Emergency telephone number

Emergency number

: 0032 (0)3 870 00 00

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

: EUH210 - Safety data sheet available on request.

2.3. Other hazards

EUH-statements

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

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SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Comments

: The mineral oils in the product contain < 3% DMSO extract (IP 346)

Name	Product identifier		Classification according to Regulation (EC) No. 1272/2008 [CLP]
,	EC-No.: 934-956-3 REACH-no: 01-2119827000- 58	10 – 25	Asp. Tox. 1, H304

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact First-aid measures after ingestion	 Not expected to require first aid measures. Wash skin with mild soap and water. In case of eye contact, immediately rinse with clean water for 10-15 minutes. Do not induce vomiting. Rinse mouth. Get immediate medical advice/attention.
4.2. Most important symptoms and effects,	, both acute and delayed
Symptoms/effects after inhalation	: Not expected to present a significant inhalation hazard under anticipated conditions of normal use.
Symptoms/effects after skin contact	: Not expected to present a significant skin hazard under anticipated conditions of normal use.
Symptoms/effects after eye contact	: Not expected to present a significant eye contact hazard under anticipated conditions of normal use.
Symptoms/effects after ingestion	: Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable extinguishing media Unsuitable extinguishing media	Water fog. Foam. Powder. Dry chemical product.Do not use a heavy water stream.			
5.2. Special hazards arising from the substance or mixture				
No additional information available				
5.3. Advice for firefighters				
Precautionary measures fire Firefighting instructions Protection during firefighting	 Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers. Do not enter fire area without proper protective equipment, including respiratory protection. 			

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SECTION 6: Accidental release measures					
6.1. Personal precautions, protective equipment and emergency procedures					
6.1.1. For non-emergency personnel Protective equipment	: Wear suitable protective clothing and gloves.				
6.1.2. For emergency responders Protective equipment	: Wear suitable protective clothing and gloves.				
6.2. Environmental precautions					
Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.					

6.3. Methods and material for containment and cleaning up		
For containment Methods for cleaning up Other information	 Impound and recover large spill by mixing it with inert granular solids. Detergent. Take up liquid spill into absorbent material sand, saw dust, kieselguhr. Spill area may be slippery. Use suitable disposal containers. 	

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage				
7.1. Precautions for safe handling				
Precautions for safe handling	: Avoid all unnecessary exposure. Both local exhaust and general room ventilation are usually required.			
Handling temperature	: <40 °C			
Hygiene measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.			
7.2. Conditions for safe storage, in	ncluding any incompatibilities			
Storage temperature Storage area	 : ≤ 40 °C : Store in dry, cool, well-ventilated area. 			

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

Additional information

: 5 mg/m3 for oil mists (TWA, 8h-workday) recommended, based upon the ACGIH TLV (Analysis according to US NIOSH Method 5026, NIOSH Manual of Analytical Methods, 3rd Edition).

8.1.5. Control banding

No additional information available

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8.2. Exposure controls

8.2.1. Appropriate engineering controls

No additional information available

8.2.2. Personal protection equipment

Personal protective equipment:

Safety glasses. Gloves.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

No additional information available

8.2.2.2. Skin protection

Skin and body protection:

No special clothing/skin protection equipment is recommended under normal conditions of use

Hand protection:

Permeation time: minimum >480min long term exposure; material / thickness [mm]: >0,35 mm. Nitrile rubber (NBR) /

8.2.2.3. Respiratory protection

Respiratory protection:

No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation.

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: amber.
Appearance	: Oily liquid.
Odour	: Characteristic.
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Not available
Explosive limits	: Not available
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: 80 °C @ ASTM D92
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
рН	: Not available
Viscosity, kinematic	: 25.7 mm²/s @ 40°C
Solubility	: Slightly soluble, the product remains on the water surface.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: 887 kg/m³ @15°C
Relative density	: Not available
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Relative vapour density at 20°C Particle characteristics	: Not available : Not applicable			
9.2. Other information				
9.2.1. Information with regard to physical hazard classes				
No additional information available				
9.2.2. Other safety characteristics				

No additional information available

SECTION 10: Stability and reactivity

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None under normal conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal conditions.

10.4. Conditions to avoid

No data available.

10.5. Incompatible materials

Strong oxidizers. acids. Bases.

10.6. Hazardous decomposition products

None under normal conditions.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008				
Acute toxicity (oral)		classified		
Acute toxicity (dermal)		classified		
Acute toxicity (inhalation)	: Not	classified		
Hydrocarbons, C15-C20, n-alkanes	isoalkanes, c	yclics, <0,03% aromatics		
LD50 oral rat	> 5	000		
LD50 dermal rabbit	> 3	160 mg/kg		
LC50 Inhalation - Rat	> 5	266 mg/m³ 4h		
Skin corrosion/irritation	: Not	classified		
Serious eye damage/irritation	: Not	classified		
Respiratory or skin sensitisation	: Not	classified		
Germ cell mutagenicity	: Not	classified		
Carcinogenicity	: Not	classified		
Reproductive toxicity	: Not	classified		
STOT-single exposure	: Not	classified		
STOT-repeated exposure	: Not	classified		
Aspiration hazard	: Not	classified		
WOLF ENGINE FLUSH				
Viscosity, kinematic	25.	7 mm²/s @ 40°C		

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11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information				
12.1. Toxicity				
Hazardous to the aquatic environment, short-term : Not classified				
(acute) Hazardous to the aquatic environment, long-term : Not classified (chronic)				
Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, <0,03% aromatics				
EC50 - Crustacea [1]	> 3193 mg/l 48h			
EC50 - Other aquatic organisms [1]	> 10000 ml/l Algae 72h			
12.2. Persistence and degradability				
WOLF ENGINE FLUSH				
Persistence and degradability	Not soluble in water, so only minimally biodegradable.			
Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, <0,03% aromatics				
Biodegradation	74 % OECD 306; 28d			
12.3. Bioaccumulative potential				
No additional information available				
12.4. Mobility in soil				
No additional information available				
12.5. Results of PBT and vPvB assessment				
No additional information available				
12.6. Endocrine disrupting properties				
No additional information available				
12.7. Other adverse effects				
No additional information available				
SECTION 13: Disposal considerations				

13.1. Waste treatment methods

Additional information

: Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

14.1. UN number or ID number

UN-No. (ADR)	: Not applicable
UN-No. (IMDG)	: Not applicable
UN-No. (IATA)	: Not applicable
UN-No. (ADN)	: Not applicable

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UN-No. (RID)	: Not applicable		
14.2. UN proper shipping name			
Proper Shipping Name (ADR) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) Proper Shipping Name (ADN) Proper Shipping Name (RID)	 Not applicable Not applicable Not applicable Not applicable Not applicable 		
14.3. Transport hazard class(es)			
ADR Transport hazard class(es) (ADR)	: Not applicable		
IMDG Transport hazard class(es) (IMDG)	: Not applicable		
IATA Transport hazard class(es) (IATA)	: Not applicable		
ADN Transport hazard class(es) (ADN)	: Not applicable		
RID Transport hazard class(es) (RID)	: Not applicable		
14.4. Packing group			
Packing group (ADR) Packing group (IMDG) Packing group (IATA) Packing group (ADN) Packing group (RID)	 Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable 		
14.5. Environmental hazards			
Dangerous for the environment Marine pollutant Other information	 No No supplementary information available 		
14.6. Special precautions for user			
Overland transport No data available			

Transport by sea No data available

Air transport No data available

Inland waterway transport No data available

Rail transport

No data available

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

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SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

Germany

Water hazard class (WGK) Storage class (LGK, TRGS 510) Hazardous Incident Ordinance (12. BImSchV)	 WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1). LGK 10-13 - Other combustible and non-combustible substances. Is not subject of the Hazardous Incident Ordinance (12. BImSchV)
Netherlands	
SZW-lijst van kankerverwekkende stoffen SZW-lijst van mutagene stoffen SZW-lijst van reprotoxische stoffen – Borstvoeding SZW-lijst van reprotoxische stoffen – Vruchtbaarheid SZW-lijst van reprotoxische stoffen – Ontwikkeling	 None of the components are listed
Denmark	
Class for fire hazard Store unit Classification remarks	 Class III-1 50 liter Flammable according to the Danish Ministry of Justice; Emergency management guidelines for the storage of flammable liquids must be followed
Switzerland Storage class (LK)	: LK 10/12 - Liquids

15.2. Chemical safety assessment

No additional information available

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SECTION 16: Other information					
Indication of changes					
Section	Changed item	Change	Comments		
	Revision date	Modified			
	Supersedes	Modified			
3	Composition/information on ingredients	Modified			
15.1	Storage class (LGK, TRGS 510)	Added			
15.1	Water hazard class (WGK)	Modified			

Other information

: The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

Full text of H- and EUH-statements:	
Asp. Tox. 1	Aspiration hazard, Category 1
EUH210	Safety data sheet available on request.
H304	May be fatal if swallowed and enters airways.

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.